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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

HACKL et al.

Serial No.: 10/713,640

Filed: November 13, 2003

Atty. File No.: 4764-32

For: "METHOD FOR THIOSULFATE
LEACHING OF PRECIOUS
METAL-CONTAINING
MATERIALS"

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

) Group Art Unit: 1754

) Examiner:

) FIRST SUPPLEMENTAL INFORMATION
) DISCLOSURE STATEMENT

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE
ADDRESSED TO COMMISSIONER OF PATENTS AND
TRADEMARKS, P.O. BOX 1450, ALEXANDRIA, VIRGINIA
22313-1450 ON July 20, 2004.

SHERIDAN BOSS P.C.

BY: Hinger Borenkamp

Dear Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with the waiver dated July 11, 2003, whereby patent applications filed after June 30, 2003 and international applications that have entered the national stage under 35 U.S.C. § 371 after June 30, 2003 need not submit copies of U.S. patents and U.S. patent application publications.

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants

do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following co-pending applications, copies of which have been or are being submitted:

Serial No. _____ filed _____

Serial No. _____ filed _____

☐ Other: _____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

<input checked="" type="checkbox"/>	<p>37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfies one of the following conditions ("X" indicates satisfaction):</p> <ul style="list-style-type: none"><input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or<input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or<input checked="" type="checkbox"/> Before the mailing date of a first Office Action on the merits, or<input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input type="checkbox"/>	<p>37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <ul style="list-style-type: none">(1) a final action under 37 C.F.R. 1.113 or(2) a notice of allowance under 37 C.F.R. 1.311, or(3) an action that otherwise closes prosecution in the application. <p>This Information Disclosure Statement is accompanied by:</p> <ul style="list-style-type: none"><input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"><input type="checkbox"/> Please charge Deposit Account 19-1970 in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.

<input type="checkbox"/>	<p>37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <p><input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND</p> <p><input type="checkbox"/> Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.</p>
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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

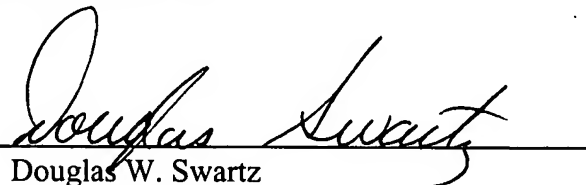
OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By:



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Date: July 20, 2004

SHEET 1 OF 3

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 4764-32	SERIAL NO. 10/713,640
	APPLICANT HACKL et al.	
	FILING DATE November 13, 2003	GROUP ART

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	1.	3,979,207	9/7/76	MacGregor	75	121	
	2.	4,980,134	12/25/90	Butler	423	27	
	3.	5,232,490	8/3/93	Bender et al.	75	733	
	4.	4,684,404	8/4/87	Kalocsai	75	118	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	5.	Black et al., "Towards An Understanding of Copper (I) Speciation and Reactivity in the Copper-Ammonia-Thiosulfate Lixiviant System", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 183-194.
	6.	Bhakta, P., "Ammonium Thiosulfate Heap Leaching" Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 259-267

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SHEET 2 OF 3

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 4764-32	SERIAL NO. 10/713,640
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7.	Bhakta, P., "Measurement and Application of Bioxidation Kinetics for Heaps" Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 269-273.
8.	Senanayake et al., "Thermodynamic Studies Of The Gold (III) (I)/(0) Redox System In Ammonia - Thiosulphate Solutions at 25° C., Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 155-168.
9.	Breuer et al. "A Review of the Chemistry, Electrochemistry And Kinetics of the Gold Thiosulfate Leaching Process" Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 139-154.
10.	Chandra et al., "Can A Thiosulfate Leaching Process Be Developed Which Does Not Require Copper and Ammonia", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 169-182.
11.	Brown et al., "Alternative Copper (II) Catalysts For Gold Leaching: Use of Multidentate Ligands To Control THiosulfate Oxidation" Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 213-226.
12.	Lam et al., "The Importance of the CU (II) Catalyst in The THiosulfate Leaching of Gold" Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 195-211.
13.	Ji et al., "A Novel THiosulfate System for Leaching Gold Without The Use of Copper and Ammonium", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 227-244.
14.	West-Sells et al., "A Process For Counteracting the Detrimental Effect Of Tetrathionate On Resin Gold Adsorption From Thiosulfate Leachates", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 245-256.
15.	Bhakta, P., "Measurement and Application Of Biooxidation Kinetics For Heaps", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 269-273.

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	16.	Bouffard et al., "Mathematical Modeling of Pyritic Refractory Gold Ore Heap Biooxidation: Model Development and Isothermal Column Simulations", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 275-288.
	17.	Wan R.Y. et al., "Solution Chemistry Factors For Gold Thiosulfate Heap Leaching," International Journal of Mineral Processing, (July 1, 2003), pp. 311-322.
	18.	Bennet et al., "A Comprehensive Copper Stockpile Leach Model: Background and Model Formulation" Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 315-328.
	19.	Dixon, D., "Heap Leach Modeling - The Current State of the Art", Hydrometallurgy 2003 - Fifth International Conference in Honor of Professor Ian Ritchie - Volume 1: Leaching and Solution Purification, Edited by C.A. Young, A.M. Alfantazi, C.G. Anderson, D.B. Dreisinger, B. Harris and a. James TMS (The Minerals, Metals & Materials Society), 2003, pgs. 289-314.

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